

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 3 AND WAUGH CHAPEL ROAD /RIEDEL ROAD IN ANNE ARUNDEL COUNTY. THIS WORK WILL INCLUDE INSTALLATION OF BATTERY BACK-UP TO BOTH SOUTHBOUND AND NORTHBOUND SIGNALS. MD 3 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

SOUTHBOUND MD 3 AND WAUGH CHAPEL ROAD

THIS INTERSECTION OPERATES IN A NEMA TWO-PHASE, FULLY-ACTUATED MODE WITH THE SOUTHBOUND MD 3 MOVEMENT AS ONE PHASE AND THE NORTHBOUND MD 3 LEFT TURN MOVEMENT & WAUGH CHAPEL ROAD RIGHT RIGHT TURN MOVEMENT AS THE SECOND PHASE. AN ALTERNATE PEDESTRIAN PHASE TO CROSS THE NORTH LEG OF MD 3 AND AN ALL RED FIREHOUSE PRE-EMPTION PHASE WILL BE PROVIDED.

NORTHBOUND MD 3 AND RIEDEL ROAD

THIS INTERSECTION OPERATES IN A NEMA TWO-PHASE, FULLY-ACTUATED MODE WITH THE NORTHBOUND MD 3 MOVEMENT AS ONE PHASE AND THE SOUTHBOUND MD 3 LEFT TURN MOVEMENT & RIEDEL ROAD RIGHT RIGHT TURN MOVEMENT AS THE SECOND PHASE. AN ALTERNATE PEDESTRIAN PHASE TO CROSS THE SOUTH LEG OF MD 3 AND A FIREHOUSE PRE-EMPTION PHASE WILL BE PROVIDED.

CONTROLLER REQUIREMENTS

SOUTHBOUND MD 3 AND WAUGH CHAPEL ROAD

THE EXISTING FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WILL BE USED.

NORTHBOUND MD 3 AND RIEDEL ROAD

THE EXISTING FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WILL BE USED.

SPECIAL NOTE

SOUTHBOUND MD 3 AND WAUGH CHAPEL ROAD

UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. EDWARD RODENHIZER OF THE MSHA AT (410) 787-7652 TO ARRANGE FOR ACTIVATION OF UPS.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
9104	1 EA	CONTROLLER CABINET SIZE "S" W/VIDEO INTERFACE 1-8 CAMERAS
9110	1 EA	UPS EQUIPMENT FOR "S" CABINET

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
2001	1 CY	CLASS TWO EXCAVATION
8012	1 EA	EMBEDDED METERED SERVICE PEDESTAL
8013	1 EA	F&I UNINTERRUPTABLE POWER SUPPLY SYSTEM IN A SIZE 5 CABINET
8024	1 EA	REMOVE AND DISPOSE OF EQUIPMENT PER ASSIGNMENT
8038	90 LF	2" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8042	180 LF	NO. 6 STRANDED BARE COPPER GROUND WIRE
8045	180 LF	ELECTRICAL CABLE 1 CONDUCTOR NO. 8 AWG THHN/THWN
8056	30 LF	7 CONDUCTOR (NO. 14 AWG)
8063	1 EA	INSTALL CONTROLLER CABINET- BASE MOUNT

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO.	QUANTITY	DESCRIPTION
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NONE

ALL SIGNAL EQUIPMENT TO BE REMOVED AND NOT RETURNED TO THE SHA SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:

MRS. KIM TRAN  
ASSISTANT DISTRICT ENGINEER - TRAFFIC  
(410) 841-1003

MR. JOE GECKLE  
ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
(410) 841-1002

MR. MIKE HUBER  
UTILITY ENGINEER  
(410) 841-1005

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR.  
CHIEF - TRAFFIC OPERATIONS  
(410) 787-7630

MR. EUGENE BAILEY  
CHIEF - SIGN OPERATIONS SECTION  
(410) 787-7676

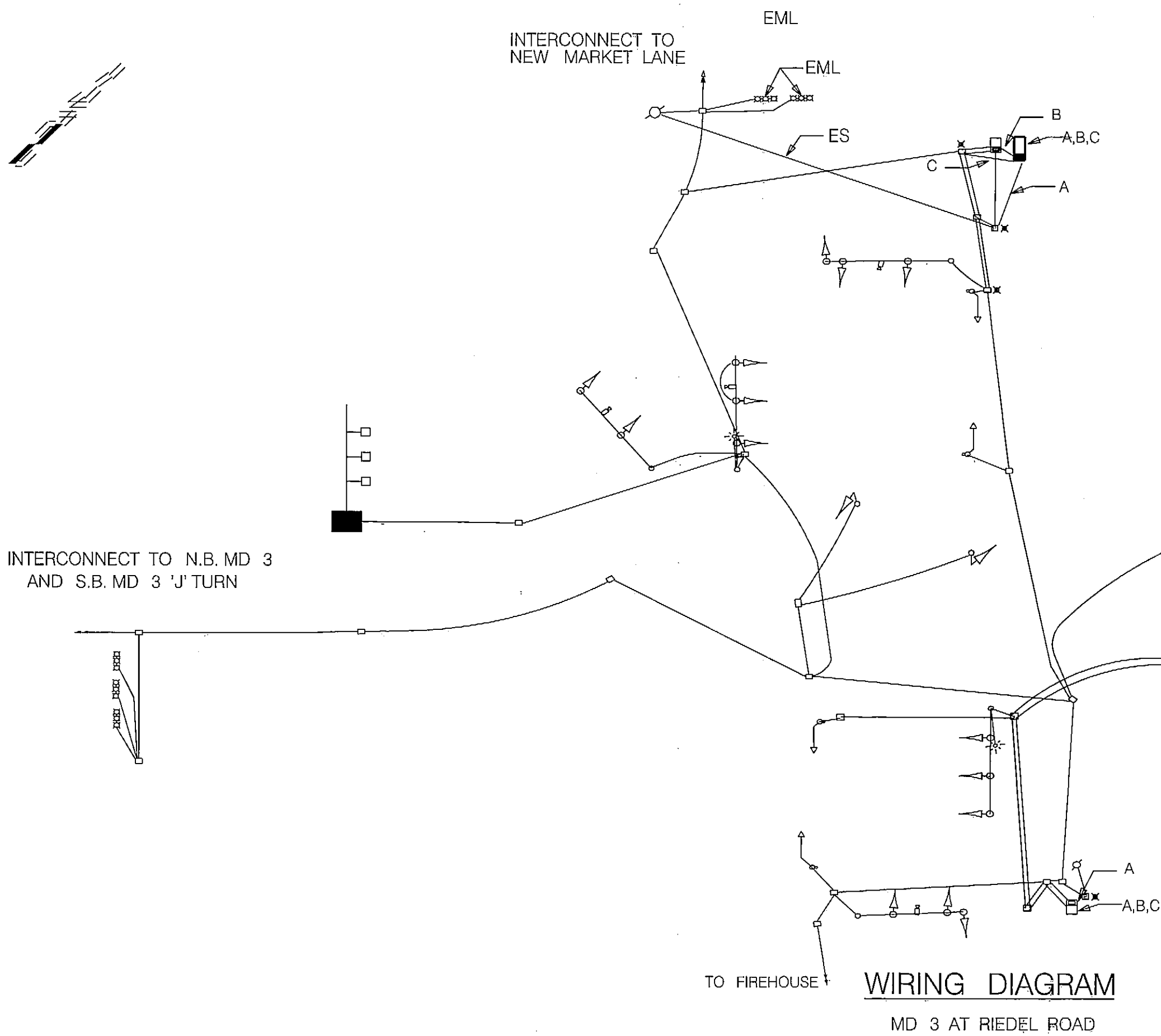
MR. ED RODENHIZER  
CHIEF - SIGNAL OPERATIONS SECTION  
(410) 787-7652

MR. ROBERT SNYDER  
ASSISTANT DIVISION CHIEF -  
TRAFFIC OPERATIONS  
(410) 787-7631

MS. MIKE STOCKER  
SUPPLY OFFICE  
SIGNAL SHOP WAREHOUSE  
(410) 787-7668

WIRING DIAGRAM

MD 3 AT WAUGH CHAPEL ROAD



WIRING DIAGRAM

MD 3 AT RIEDEL ROAD

PHASE CHART  
SOUTHBOUND MD 3 AND WAUGH CHAPEL ROAD

	1	2	3	10	11	12	13	14	15	19,20
PHASE 1	R	R	R	R	R	R	R	R	R	R
1 CHANGE	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PHASE 1 ALT.	G	G	G	R	R	R	R	R	R	R
PED CLEAR	G	G	G	R	R	R	R	R	R	R
1 ALT. CHANGE	Y	Y	Y	R	R	R	Y	Y	Y	Y
PHASE 2	R	R	R	G	G	G	R	R	R	R
2 CHANGE	R	R	R	Y	Y	Y	R	R	R	R
PRE-EMPTION	R	R	R	R	R	R	R	R	R	R
CHANGE	R	R	R	R	R	R	R	R	R	R
FLASHING OPERATION	FLR	FLR	FLR	FLY	FLY	FLY	FLR	FLR	FLR	DARK

PHASE CHART

NORTHBOUND MD 3 AND RIEDEL RD.

	7	8	9	4	5	6	16	17	18	21,22
PHASE 1	R	R	R	R	R	R	R	R	R	R
1 CHANGE	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PHASE 1 ALT.	G	G	G	R	R	R	G	G	G	G
PED CLEAR	G	G	G	R	R	R	G	G	G	G
1 ALT. CHANGE	Y	Y	Y	R	R	R	Y	Y	Y	Y
PHASE 2	R	R	R	G	G	G	R	R	R	R
2 CHANGE	R	R	R	Y	Y	Y	R	R	R	R
PRE-EMPTION	R	R	R	R	R	R	G	G	G	G
CHANGE	R	R	R	R	R	R	Y	Y	Y	Y
FLASHING OPERATION	FLR	FLR	FLR	FLY	FLY	FLY	FLR	FLR	FLR	DARK

WIRING KEY

- A 1-CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.) - 3 RUNS
- B STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- C 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- EML EXISTING MICRO-LOOP PROBE
- X GROUND ROD
- METER SERVICE PEDESTAL

SHA

STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION

MD 3 AND WAUGH CHAPEL RD./RIEDEL RD.

GENERAL INFORMATION PLAN

SCALE NONE DATE 2/14/2013 CONTRACT NO. XY1395185

DESIGNED BY FJA COUNTY ANNE ARUNDEL  
DRAWN BY FJA LOGMILE 02000303.96  
CHECKED BY T.I.M.S. NO. L477  
F.A.P. NO. N/A TOD NO.

DRAWING NO. TS-1515 P GI SHEET NO. 2 OF 2

FILE PATH: \$FILES  
DATE: \$DATES